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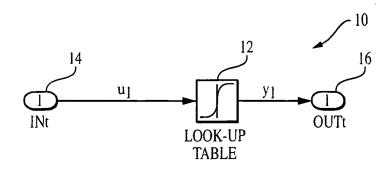


FIG. 1A PRIOR ART

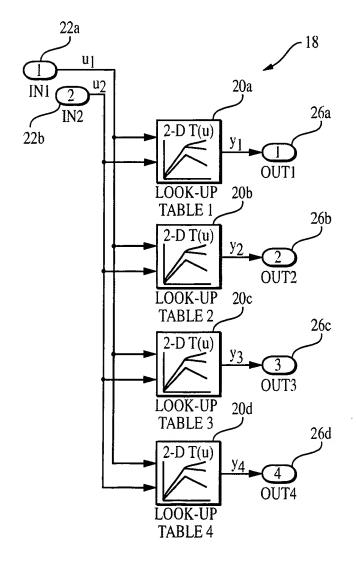


FIG. 1B PRIOR ART



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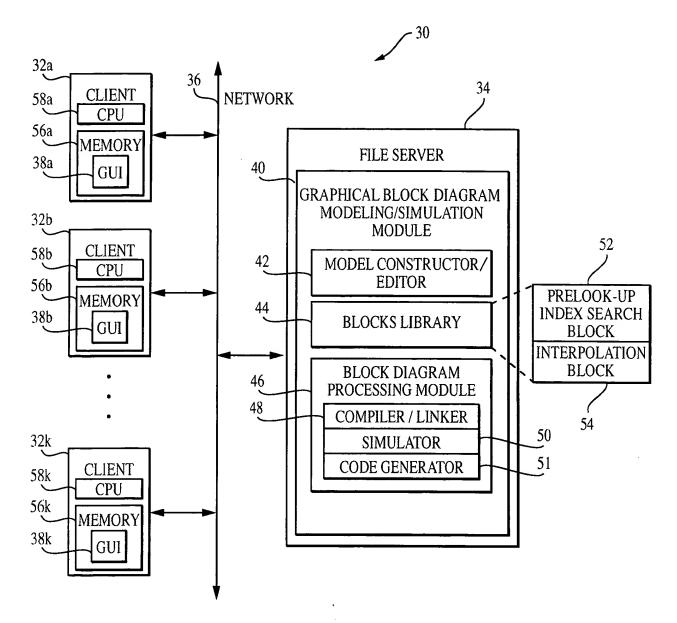
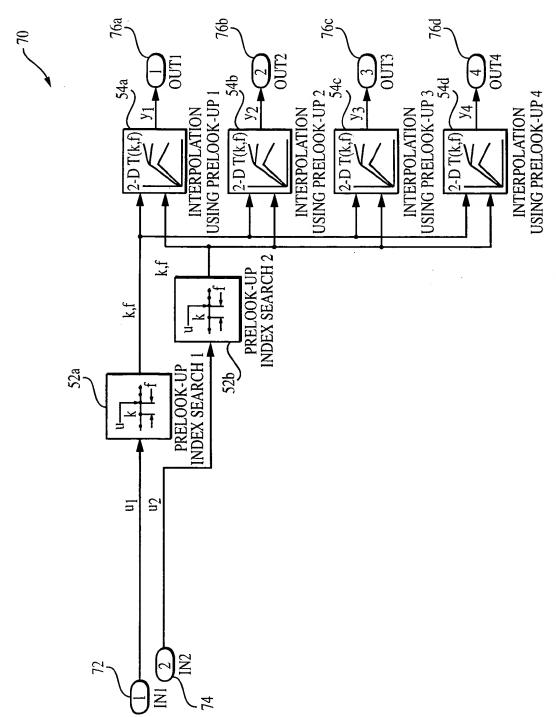


FIG. 2



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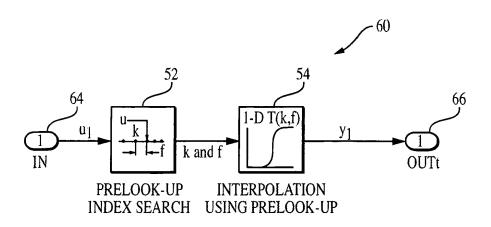
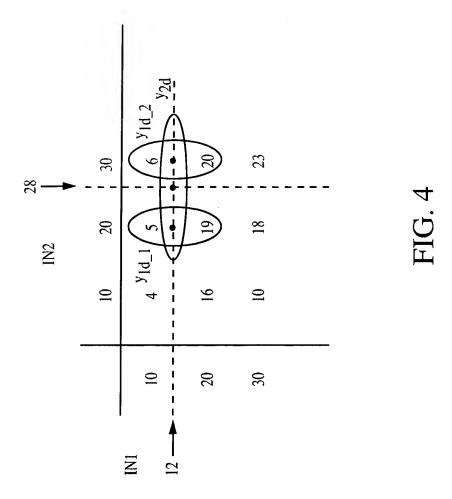


FIG. 3A



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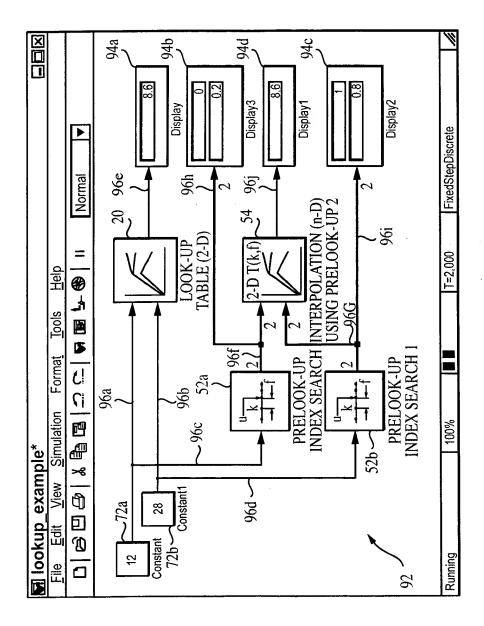
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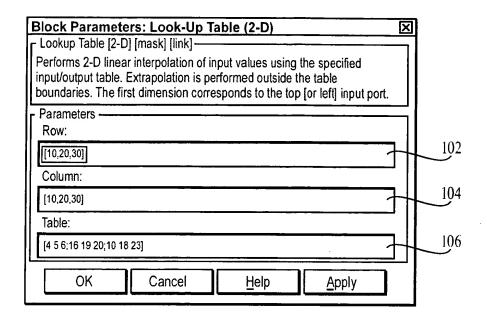


FIG. 6

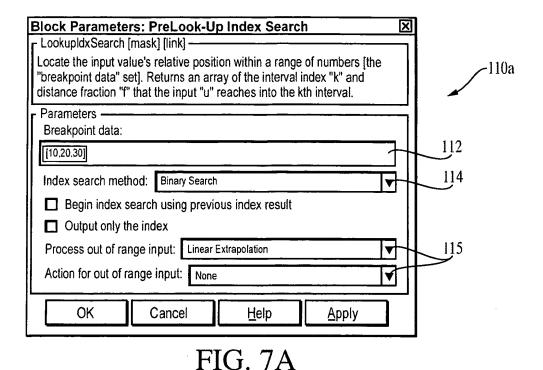


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Block Parameters: PreLook-Up Index Search1 X LookupldxSearch [mask] [link] Locate the input values relative position within a range of numbers [the -110b "breakpoint data" set]. Returns an array of the interval index "k" and distance fraction "f" that the input "u" reaches into the kth interval. Parameters Breakpoint data: 112 [10,20,30] 114 Index search method: Binary Search Begin index search using previous index result Output only the index Process out of range input: Linear Extrapolation 115 Action for out of range input: None ◀ OK Cancel <u>H</u>elp <u>Apply</u>

FIG. 7B



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Block Parameters: Interpolation(n-D) using PreLook-Up LookupNDInterpldx [mask] [link] Perform n-dimensional [n-D] interpolated table lookup using precalculated indices and distance fractions. An n-D Table is a sampled representation of a function in N variables. This block is fed with the output of a PreLook-Up Index Search block. The first dimension corresponds to the top [or left] input port. Parameters -Number of table dimensions: 2 ▼ Table data: 118 [4 5 6;16 19 20;10 18 23] Interpolation method: Linear ▼ Extrapolation method: Linear Action for out of range input: None ▼ OK Cancel Help <u>Apply</u>

FIG. 8

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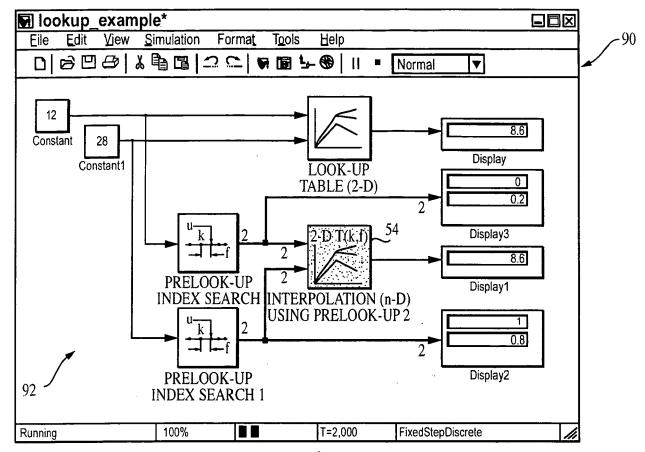


FIG. 9

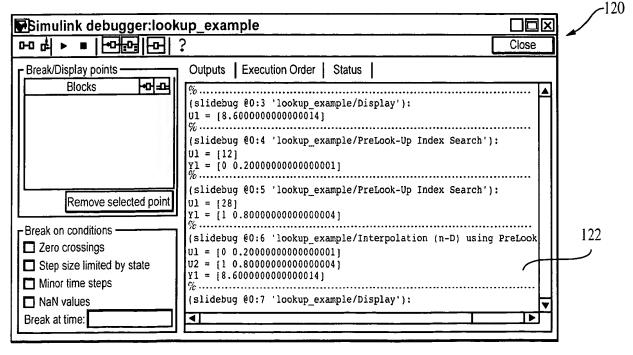


FIG. 10